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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/966,222	09/28/2001	William James Palmteer	17658	5902	
7	590 09/23/2002				
Tyco Technology Resources Suite 450 4550 New Linden Hill Road			EXAMINER		
			CRUZ, LOURDES C		
Wilmington, DE 19808-2952			ART UNIT	PAPER NUMBER	
			2827		
			DATE MAILED: 09/23/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application	No.	Applicant(s)				
Office Action Summary		09/966,222		PALMTEER ET AL.				
		Examiner		Art Unit				
		Lourdes C. (Cruz	2827				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)⊠	_							
2a) <u></u>	This action is FINAL . 2b)⊠ Thi	is action is n	on-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.								
4a) Of the above claim(s) <u>10-18</u> is/are withdrawn from consideration.								
·	5) Claim(s) is/are allowed.							
l '	6)⊠ Claim(s) <u>1-9</u> is/are rejected.							
l '	7) Claim(s) is/are objected to.							
8) Claim(s) 4698 are subject to restriction and/or election requirement. Application Papers								
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>28 September 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5		ry (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Drawings

The figures showing cross sectional view of the invention (and those of the prior art) are improperly crosshatched. All of the cross hatching patterns should be selected from those shown on page 600-81 of the MPEP based on the material of the part. Also see 35 CFR 184 (h)(3) and MPEP 608.02.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 8 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8 recites "wherein the at least one die includes at least first and second dies" Are the first and second dies included in the one die for a total of three dies? Or is the second die included within the first die, the first and the one die being the same? Also, it is unclear as to how an aperture in the pad will be disposed between dies while the dies are included within one single structure.

Claim 9 recites the aperture extending in different directions. Nevertheless, the claim is indefinite because applicant has failed to recite with respect to what structure the aperture extends into one of the directions selected from the recited group.

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Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-9 are rejected under 35 U.S.C. 102(e) as being anticipated by US 6143981.

Glenn discloses (See Fig. 8) a chip package comprising:

A lead frame 20 including a die attach pad 24 centrally located therein and a plurality of wire bonding pads 53 peripherally located therein; at least one aperture (where the encapsulant meets side 33) in the die attach pad; at least one die 56 formed on the die attach pad; at least one bonding wire 58 for electrically connecting the die and the wire bonding pads; and a mold 40 for encapsulating the die and the bonding wire to form a chip package, wherein the mold compound is formed in the aperture.

Glenn also discloses:

 The aperture formed fully through the die attach pad. Inherently, and as shown in the Figures, Glenn also discloses the aperture formed partially through the die attach pad. Application/Control Number: 09/966,222

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- The shape of the aperture being one of rectangle, square, oval,
 triangle, circle or a combination thereof.
- The chip package being a leadframe-based Chip Scale Package
 (Col. 1, lines 62+)
- See that more than one aperture, for a plurality of apertures are formed around the one die
- See Figure 11 wherein multiple lead frames and die pads are shown. See that at least one aperture is disposed between dies.
- See that the aperture extends horizontally, vertically or diagonally

Regarding claim 4, see that all the structural limitations of the invention as claimed have been addressed above. Also, see that the prior art anticipates the invention as claimed no matter how actually made since patentability of a product puts no weight in the process in which is made. A "product by process" claim is directed to the product per se, no matter how actually made, In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); In re Marosi et al, 218 USPQ 289; and particularly In re Thorpe, 227 USPQ 964, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether

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claimed in "product by process" claims or not. Note that applicant has the burden of

proof in such cases, as the above case law makes clear.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lourdes C. Cruz whose telephone number is 703-306-

5691. The examiner can normally be reached on M-F 10-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David L Talbott can be reached on 703-305-9883. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-308-7722

for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

Lourdes C. Cruz Examiner

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September 18, 2002

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